The following is a listing of all claims presented in the application, an indication of

how they are to be amended and their current status:

CLAIMS:

Claims 1-19, (Canceled)

Claim 20. (CURRENTLY AMENDED) A material discharge apparatus for controlling

the discharge of flowable material being conveyed through a conical shaped hopper,  $\frac{1}{100}$ 

material to be continually discharged through the hopper until in feeding is stopped or

ends, the hopper being configured and arranged, in use, to be operable at a height above a surface on which a discharge pile is to be formed, the apparatus including the hopper

having an inlet opening adjacent the top and an open discharge outlet at the base of the

hopper, the discharge outlet being exposed to the surrounding environment such that, in

use, flowable material is discharged through the open discharge outlet, and a valve means

being configured and arranged in the hopper, the valve means including a bulb having a lower end portion positionable adjacent the discharge outlet forming a gap between the

inner wall of the hopper and the bulb for material, in use, to flow by being gravity fed

therebetween and out through the open discharge outlet, the valve means and/or the hopper being adapted to move relative to the other, in use, for controlling the rate of

continual discharge through the gap to form a solid column of flowing material to reduce

the amount of dust being dispersed into the surrounding environment.

Claim 21. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to

claim 20 wherein the valve means is arranged in the hopper such that the lower end

between the hopper and the valve means is evenly spaced about the lower end portion of

the valve means, and wherein the discharge outlet is not closed by the valve means.

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and Method. Confirmation Number:8700

Claim 22. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to

claim 20 wherein the hopper is adapted to be suspended below a support frame by hopper support members, and wherein the valve means is adapted to be suspended below the

support frame.

Claim 23. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to

claim 22 wherein the hopper is adapted to be suspended below a support frame by a plurality of spaced apart hopper support members, the hopper support members being

elastic in form, in use, to expand under the weight of material being conveyed through

the hopper so as to increase the gap between the hopper and the valve means to increase

the flow of material therethrough.

Claim 24. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to

claim 20 wherein the valve means includes a bulb having a lower end portion having a

circular cross section, and wherein the hopper has a circular cross section that is tapered

toward the discharge outlet.

Claim 25. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to claim 20 wherein the hopper is adapted to be attached to a support frame and being

adapted with a load cell transducer means configured and arranged to measure the weight

of the hopper and generate a measurement signal that is forwarded to a valve control means, and a valve height adjustment means configured and arranged for attachment to

the valve means and being electrically connected to the valve control means and to

receive command signals therefrom, the valve control means being adapted to receive, in use, a measurement signal from the transducer means and control movement of the valve

means by the valve control means to raise and lower the valve means to increase or

decrease the gap respectively between the hopper and the valve means.

Claim 26. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to claim 25 wherein the valve control means includes a computer controller means

programmed by a suitable computer program for controlling the operation of the valve height adjustment means, the controller means allowing a user to enter a preset weight setting for the hopper, and in use, the controller means receives a digital measurement signal from the load cell means representing the weight of the hopper with material, and when the weight signal exceeds the threshold preset weight setting the controller means actuates the valve height adjustment means to raise the valve means to increase the gap and allow a higher discharge rate of material until the weight measurement signal from

Claim 27. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to claim 25 wherein the controller means actuates the valve height adjustment means to raise the valve means in predetermined incremental lift positions.

the load cell means falls below the preset weight setting.

Claim 28. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to claim 20 wherein the hopper is made of a rotary moulded plastics material.

Claim 29. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to claim 22 wherein the hopper support members include coil springs, in use, that are expandable under the weight of lading in the hopper.

Claim 30. (PRESENTLY AMENDED) A computer controlled process A material discharge apparatus according to claim 1 further including a computer program embodied on a computer readable medium for use with a computer for controlling the flow rate of material, in use, being conveyed through a hopper, the computer program comprising including the steps-of:

a. receiving a measurement signal from a load cell transducer means representing an actual measurement of weight of a hopper with material flowing therethrough and comparing the measurement against a preset measurement of weight representing a preferred flow rate through the

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hopper;

if the actual measurement of weight is more than the preset measurement
of weight a control signal is sent to a valve height adjustment means to lift

a valve means in the hopper to increase the discharge rate of material

flowing through the hopper;

 $c. \hspace{0.5in} \hbox{if the actual measurement of weight is less than the preset measurement of} \\$ 

weight a control signal is sent to the valve height adjustment means to lower the valve means in the hopper to decrease the discharge rate of

material flowing through the hopper; and

d. resetting the program to repeat step a until the material has been

discharged through the hopper.

Claim 31. (PRESENTLY AMENDED) A computer controlled process A material

discharge apparatus according to claim 30 wherein in step a, the program allows an operator to preset the number of measurements per minute taken by the load cell

transducer means.

Claim 32. (PRESENTLY AMENDED) A computer controlled process A material

discharge apparatus according to claim 30 wherein in step a. if the actual measurement of

weight is determined by the program to be the same as the preset measurement of weight

the program will reset to step a.

Claim 33. (CANCELED).

Claim 34. (PRESENTLY AMENDED) A method of controlling the flow rate of

material conveyed through a hopper an apparatus according to claim 20, the steps of the

method including:

A. Comparing an actual measurement of weight of a hopper with material

flowing therethrough with a preset measurement of weight representing a

preferred flow rate through the hopper;

B. if the actual measurement of weight is more than the preset measurement of

weight, the valve means in the hopper is actuated to rise to increase the

discharge rate of material flowing through the hopper;

C, if the actual measurement of weight is less than the preset measurement of

weight the valve means in the hopper is actuated to lower the valve means in

the hopper to decrease the discharge rate of material flowing through the

hopper; and

D. repeating step a until the material has been discharged through the hopper.

Claim 35. (PREVIOUSLY SUBMITTED) A material discharge apparatus according to

claim 20 wherein the bulb includes a conical lower end portion, and a conical top portion with a circular cross section being tapered toward the top end portion forming an inverted

cone on the lower end portion, the conical lower end portion being tapered toward the

lower end of the bulb.

Claim 36. (CANCELED).

Claim 37. (CANCELED).

Claim 38. (CANCELED).

REMARKS

Thus, applicant would urge the Examiner to reconsider the requirement for restriction and examine all claims currently pending in the application.